# Yulin Wang

Ph.D. Student, Tsinghua University

Research Interests: Efficient Deep Learning, Computer Vision.

Homepage: www.rainforest-wang.cool Email: wang-yl19@mails.tsinghua.edu.cn

## **Education**

Ph.D. Student in Pattern Recognition and Machine Learning, Tsinghua University, China. 09/2019 – Now

Advisor: Prof. Cheng Wu and Prof. Gao Huang.

B.Eng. in Automation, Beihang University, China.

09/2015 - 06/2019

➤ GPA: Top 1/231.

# **Research Experience**

Intern, Berkeley Deep Drive, University of California Berkeley, USA.

07/2018 - 08/2018

Advisor: Dr. Ching-Yao Chan.

Intern, Lab of Intelligent Manufacturing, Beihang University, China.

06/2017 - 06/2018

Advisor: Prof. Fei Tao.

## **Publications**

[1] Yulin Wang, Zhaoxi Chen, Haojun Jiang, Shiji Song, Yizeng Han, Gao Huang. Adaptive Focus for Efficient Video Recognition

IEEE/CVF International Conference on Computer Vision (ICCV Oral), 2021

index, evi international conjerence on computer vision (100 v oral), 201

[2] Yulin Wang, Gao Huang, Shiji Song, Xuran Pan, Yitong Xia, Cheng Wu. Regularizing Deep Networks with Semantic Data Augmentation

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI, Q1, IF=17.86), 2021

[3] Yulin Wang, Zanlin Ni, Shiji Song, Le Yang, Gao Huang.

Revisiting Locally Supervised Learning: an Alternative to End-to-end Training International Conference on Learning Representations (ICLR), 2021

[4] Shuang Li, Mixue Xie, Kaixiong Gong, Chi Harold Liu, Yulin Wang, Wei Li.

**Transferable Semantic Augmentation for Domain Adaptation** 

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR Oral), 2021

[5] Shuang Li, Kaixiong Gong, Chi Harold Liu, Yulin Wang, Feng Qiao, Xinjing Cheng.

MetaSAug: Meta Semantic Augmentation for Long-Tailed Visual Recognition

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021

[6] Le Yang, Haojun Jiang, Ruojin Cai, Yulin Wang, Shiji Song, Gao Huang, Qi Tian.

CondenseNet V2: Sparse Feature Reactivation for Deep Networks

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021

[7] Yulin Wang, Kangchen Lv, Rui Huang, Shiji Song, Le Yang, Gao Huang.

Glance and Focus: a Dynamic Approach to Reducing Spatial Redundancy in Image Classification Neural Information Processing Systems (NeurIPS), 2020

[8] Yulin Wang, Shiji Song, Gao Huang, Cheng Wu.

**Collaborative Learning with Corrupted Labels** 

*Neural Networks* (**NN, Q1, IF=8.05**), 2020

[9] Yulin Wang, Xuran Pan, Shiji Song, Hong Zhang, Cheng Wu, Gao Huang.

**Implicit Semantic Data Augmentation for Deep Networks** 

Neural Information Processing Systems (NeurIPS), 2019

[10] Yulin Wang, Yongping Zhang, Fei Tao, Tingyu Chen, Ying Cheng, Shunkun Yang.
Logistics-aware Manufacturing Service Collaboration Optimization towards Industrial Internet Platforms
International Journal of Production Research (IJPR, Q1, IF=8.57), 2019

# **Preprints**

[1] Yulin Wang, Rui Huang, Shiji Song, Gao Huang.

Not All Images are Worth 16x16 Words: Dynamic Vision Transformers with Adaptive Sequence Length arXiv:2105.15075 (under submission), 2021

[2] Yizeng Han, Gao Huang, Shiji Song, Le Yang, Honghui Wang, Yulin Wang. Dynamic Neural Networks: A Survey arXiv:2102.04906 (submitted to TPAMI), 2021

[3] Yulin Wang, Gao Huang, Jiayi Guo, Shiji Song, Cheng Wu. Meta-Semi: A Meta-learning Approach for Semi-supervised Learning arXiv:2007.02394 (submitted to TIP), 2020

#### **Academic Service**

• Reviewer for IJCV, T-Cybernetics, CVPR, ICCV, NeurIPS, ICLR, ...

## **Selected Honors**

- Outstanding Reviewer, CVPR, 2021
- Outstanding Oral Presentation, Doctoral Students Forum, Tsinghua University, 2021
- Travel Award, NeurIPS, 2019
- "Shen Yuan" Medal, Beihang University, 2018 (Top 10/3500+)
- National Scholarship, Ministry of Education of China, 2018 (Top 2%)
- National Scholarship, Ministry of Education of China, 2017 (Top 2%)
- Innovation Scholarship, Ministry of Industry and Information Technology of China, 2017 (Top 1/231)
- First Prize in the "Zhou Peiyuan" Mechanics Competition for Undergraduate Students, 2017 (Top 0.3%)
- First Prize in National Undergraduate Mathematical Contest in Modeling, 2017 (Top 0.2%)
- Scholarship for Outstanding Academic Performance, Beihang University, 2016-2019 (Top 5%)

## **Invited Talks**

- 2019.10, SCSE, Beihang University, Semantic Data Augmentation
- 2019.12, School of Computer Sci. and Tech., Beijing Institute of Technology, Semantic Data Augmentation
- 2020.06, Huawei Technologies Ltd., Glance and Focus Networks
- 2020.11, Qingyuan Seminar, Glance and Focus Networks
- 2021.03, ByteDance Ltd., Semantic Data Augmentation
- 2021.04, Doctoral Students Forum, Tsinghua University, Locally Supervised Deep Learning
- 2021.04, Beijing Academy of Artificial Intelligence, Dynamic Image/Video Recognition
- 2021.06, AI Time, Locally Supervised Deep Learning